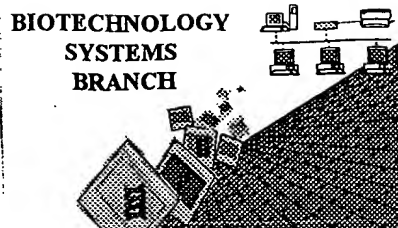


## **RAW SEQUENCE LISTING** **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/980,845  
Source: PG/09  
Date Processed by STIC: 5/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**  
**VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

BEST AVAILABLE COPY

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER:

09/980,845

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ✓ Variable Length      Sequence(s) 4 contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i)      SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT09

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/980,845

DATE: 05/21/2002  
 TIME: 15:25:08

Input Set : A:\seqlist.txt  
 Output Set: N:\CRF3\05212002\I980845.raw

**Does Not Comply  
 Corrected Diskette Needed**

*pg 1, 3-5*

3 <110> APPLICANT: Handfield, Martin  
 4 Brady, Jeannine  
 5 Progulske-Fox, Ann  
 6 Hillman, Jeffrey D.  
 8 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of  
 9 a Host  
 11 <130> FILE REFERENCE: MBHB00-505B  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/980,845  
 C--> 14 <141> CURRENT FILING DATE: 2002-04-08  
 16 <150> PRIOR APPLICATION NUMBER: 60/147,551  
 17 <151> PRIOR FILING DATE: 1999-08-06  
 19 <150> PRIOR APPLICATION NUMBER: PCT/US00/21340  
 20 <151> PRIOR FILING DATE: 2000-08-04  
 22 <160> NUMBER OF SEQ ID NOS: 20  
 24 <170> SOFTWARE: PatentIn Ver. 2.1

# ERRORED SEQUENCES

777 <210> SEQ ID NO: 20  
 778 <211> LENGTH: 54  
 779 <212> TYPE: PRT  
 780 <213> ORGANISM: Actinobacillus actinomycetemcomitans  
 782 <400> SEQUENCE: 20  
 783 Met Val Gly Lys Phe Ile Val Ile Glu Gly Leu Glu Gly Ala Gly Lys  
 784 1 5 10 15  
 786 Ser Thr Ala His Gln Cys Val Val Asp Thr Leu Lys Thr Leu Gly Val  
 787 20 25 30  
 789 Gly Glu Val Ile Ser Thr Arg Glu Pro Gly Gly Thr Pro Val Gly Gly  
 790 35 40 45  
 792 Lys Ala Thr Pro Ser His  
 793 50  
 E--> 799 (2)

*delete*

*see following pages for more error*

## RAW SEQUENCE LISTING

DATE: 06/02/2002

PATENT APPLICATION: US/09/980,845

TIME: 19:10:38

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05312002\I980845.raw

```

120 <212> TYPE: DNA
121 <213> ORGANISM: Actinobacillus actinomycetemcomitans
123 <220> FEATURE:
124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (554)
126 <223> OTHER INFORMATION: N stands for any nucleotide.
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (596)
131 <223> OTHER INFORMATION: N stands for any nucleotide.
133 <400> SEQUENCE: 3
134 gatcaaaactg gtggcgcaag ggcagcgcgt agcaaattta cccgatattt tgggtctatgc 60
135 gcgcgtcggc aacggcatgg tagggcgacg ccgtggttta aaccaagcca aagcggaatg 120
136 gcgcttattt aagctaaaac accatcttgg cattcagga tttttatccg ggctattcac 180
137 ttttgtcctg cgttcgggtg ccagattatt gccgacatca ttactgaaaa acatctatca 240
138 aaccttttta agaaaataac atgatgaaat taaactgtat tttaaaaata tccggaattt 300
139 ccaccgcact ttttctagcg ggttggttct caaattcaag tgcgcgcgacg caatcctctg 360
140 agcaggcgaa ttctgttacg gctgtgaatc ccactgcggt gtacagtaag ccccgcaactt 420
141 tggataactt caacgattat gtgaatttct taaaaggtaa agcagcggca gaaggcgttt 480
142 ctgccgacgt attgaatgca caaaataata ttaattatat tcaaaaatcc gtggatttgg 540
143 acgatcaaca agcnggcaga attcgcaagc gtgatccaaa tgccccgccg atcatnaatt 600
144 ccgaacggca cgaccaatta cttaaatcgt gtattaacca agaataaagt agacacggca 660
145 gaagcacgtt attggaaca attgcgcgag cttgaaaatg cttcaaagaa attcagcgta 720
146 ccgaaaaatt atctgttagc cttgtggggc atggagagta gctttggcta ttatcagggc 780
147 aattacgatg tgttatccac cttagccact cttgcttttg acggacgccg tgaagcetta 840
148 ttcagcaaag aattcatcgc cgccatgaaa atgctacagc gcgate 886
151 <210> SEQ ID NO: 4
152 <211> LENGTH: 507
153 <212> TYPE: DNA
154 <213> ORGANISM: Actinobacillus actinomycetemcomitans
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (4)
159 <223> OTHER INFORMATION: N stands for any nucleotide.
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: (9)
164 <223> OTHER INFORMATION: N stands for any nucleotide.
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (21)
169 <223> OTHER INFORMATION: N stands for any nucleotide.
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (23)
174 <223> OTHER INFORMATION: N stands for any nucleotide.
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <222> LOCATION: (29)

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See 4  
3-  
rr

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/980,845

DATE: 06/02/2002  
TIME: 19:10:38

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\05312002\I980845.raw

179 <223> OTHER INFORMATION: N stands for any nucleotide.  
181 <220> FEATURE:  
182 <221> NAME/KEY: misc\_feature  
183 <222> LOCATION: (32)  
184 <223> OTHER INFORMATION: N stands for any nucleotide.  
186 <220> FEATURE:  
187 <221> NAME/KEY: misc\_feature  
188 <222> LOCATION: (35)..(36)  
189 <223> OTHER INFORMATION: N stands for any nucleotide.  
191 <220> FEATURE:  
192 <221> NAME/KEY: misc\_feature  
193 <222> LOCATION: (39)  
194 <223> OTHER INFORMATION: N stands for any nucleotide.  
196 <220> FEATURE:  
197 <221> NAME/KEY: misc\_feature  
198 <222> LOCATION: (42)  
199 <223> OTHER INFORMATION: N stands for any nucleotide.  
201 <220> FEATURE:  
202 <221> NAME/KEY: misc\_feature  
203 <222> LOCATION: (45)  
204 <223> OTHER INFORMATION: N stands for any nucleotide.  
206 <220> FEATURE:  
207 <221> NAME/KEY: misc\_feature  
208 <222> LOCATION: (49)  
209 <223> OTHER INFORMATION: N stands for any nucleotide.  
211 <220> FEATURE:  
212 <221> NAME/KEY: misc\_feature  
213 <222> LOCATION: (52)  
214 <223> OTHER INFORMATION: N stands for any nucleotide.  
216 <220> FEATURE:  
217 <221> NAME/KEY: misc\_feature  
218 <222> LOCATION: (58)  
219 <223> OTHER INFORMATION: N stands for any nucleotide.  
221 <220> FEATURE:  
222 <221> NAME/KEY: misc\_feature  
223 <222> LOCATION: (61)..(62)  
224 <223> OTHER INFORMATION: N stands for any nucleotide.  
226 <220> FEATURE:  
227 <221> NAME/KEY: misc\_feature  
228 <222> LOCATION: (65)  
229 <223> OTHER INFORMATION: N stands for any nucleotide.  
231 <220> FEATURE:  
232 <221> NAME/KEY: misc\_feature  
233 <222> LOCATION: (69)  
234 <223> OTHER INFORMATION: N stands for any nucleotide.  
236 <220> FEATURE:  
237 <221> NAME/KEY: misc\_feature  
238 <222> LOCATION: (73)  
239 <223> OTHER INFORMATION: N stands for any (polynucleotide).

"h" can only  
represent a  
single nucleotide

(see item 5 on  
Erra Summary  
Sheet)

6/2/02

## RAW SEQUENCE LISTING

DATE: 06/02/2002

PATENT APPLICATION: US/09/980,845

TIME: 19:10:38

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05312002\I980845.raw

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241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (97)
244 <223> OTHER INFORMATION: N stands for any nucleotide.
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (102)
249 <223> OTHER INFORMATION: N stands for any nucleotide.
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (138)
254 <223> OTHER INFORMATION: N stands for any nucleotide.
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (457)
259 <223> OTHER INFORMATION: N stands for any nucleotide.
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (459)
264 <223> OTHER INFORMATION: N stands for any nucleotide.
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (467)
269 <223> OTHER INFORMATION: N stands for any nucleotide.
271 <400> SEQUENCE: 4
W--> 272 ttgntacctt agccgctgac nanaactanc angcnntgna tnatntcgna tnattaanat 60
W--> 273 nngcnaggng canagctta cctttgccga cggttcnctg tntgaaagcg ccattcgcaa 120
W--> 274 agtgccggtg gaggcgngga aaattcactc acttggtgcg gaaggcaatg atgtgggatt 180
275 gaaagcccat catggcgggt ggataaagcg ttatttttta tgtcggcaga tgcctttcct 240
276 gcgttaaatg cgttattaga cgaaaatttt tcgtatcagg acacagcagt ttacggcgag 300
277 aatttttgtg tttccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaadc 360
278 ggctcctgcg tgggtggagg gtcgcagccg cgtaaaccctt gtgagcgctt atcgaaaaat 420
W--> 279 accaataatc cgaacacgca acaaaccgtg tacgctncng ctggtcnggc tggatatgtc 480
280 cgggtgtacc ccaaggggga aattcaa 507
283 <210> SEQ ID NO: 5
284 <211> LENGTH: 1087
285 <212> TYPE: DNA
286 <213> ORGANISM: Actinobacillus actinomycetemcomitans
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (622)
291 <223> OTHER INFORMATION: N stands for any nucleotide.
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (642)
296 <223> OTHER INFORMATION: N stands for any nucleotide.
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (661)
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/980,845

DATE: 06/02/2002  
TIME: 19:10:39

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\05312002\I980845.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 566,625,627,636,650,656,661,672,681,720,723  
Seq#:3; N Pos. 554,596  
Seq#:4; N Pos. 4,9,21,23,29,32,35,36,39,42,45,49,52,58,61,62,65,69,73,97  
Seq#:4; N Pos. 102,138,457,459,467  
Seq#:5; N Pos. 622,642,661,669,685,690,700  
Seq#:6; N Pos. 609,614,651,665  
Seq#:7; N Pos. 532,630,696,710,722,725  
Seq#:8; N Pos. 538  
Seq#:12; N Pos. 131,151,170,178,194,199,209  
Seq#:18; Xaa Pos. 43,50,59,66,69